

Resource Summary Report

Generated by PRECISE-TBI on Jul 31, 2026

BALB/cByJ

RRID:IMSR_JAX:001026

Type: Organism

Proper Citation

RRID:IMSR_JAX:001026

Organism Information

URL: <https://www.jax.org/strain/001026>

Proper Citation: RRID:IMSR_JAX:001026

Description: Mus musculus with name BALB/cByJ from IMSR.

Species: Mus musculus

Synonyms: BALB/c Bailey Jackson. BALB Bailey Jackson

Notes: gene symbol note: mandibular morphogenesis 1|NDV-induced circulating interferon|beta-2 microglobulin|hippocampal lamination defect|cytohesin 1|cadherin related 23 (otocadherin)|acyl-Coenzyme A dehydrogenase; short chain|aryl-hydrocarbon receptor; inbred strain: Mdmg1|lf1|B2m|Hld|Cyth1|Cdh23|Acads|Ahr

Affected Gene: mandibular morphogenesis 1|NDV-induced circulating interferon|beta-2 microglobulin|hippocampal lamination defect|cytohesin 1|cadherin related 23 (otocadherin)|acyl-Coenzyme A dehydrogenase; short chain|aryl-hydrocarbon receptor

Genomic Alteration: |low response|a variant|hippocampal lamination defect|mutation 1; Jackson|age related hearing loss 1|deletion; Jackson|b-2 variant

Catalog Number: JAX:001026

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: BALB/cByJ

Record Creation Time: 20250513T053623+0000

Record Last Update: 20260725T044331+0000

Ratings and Alerts

- Used for genotyping by the Human Islet Research Network community. Contact(s): [Mark S. Anderson](#) - Human Islets Research Network <https://hirnetwork.org/>

No alerts have been found for BALB/cByJ.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 565 mentions in open access literature.

Listed below are recent publications. The full list is available at [PRECISE-TBI](#) .

Toumi E, et al. (2025) GNS561 (ezurpimtrostat), a small basic lipophilic molecule, prevents lupus phenotype in a pristane-induced lupus mouse model. British journal of pharmacology, 182(16), 3786.

Sviercovich A, et al. (2025) Oxytocin treatment reduces cancer cachexia in a pre-clinical model. Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie, 193, 118825.

Hadrian K, et al. (2025) Effect of primary copper metabolism disturbance on elemental, protein, and lipid composition of the organs in Jackson toxic milk mouse. Biometals : an international journal on the role of metal ions in biology, biochemistry, and medicine, 38(1), 103.

Kazemi MH, et al. (2025) FOXO1 pathway activation by VISTA immune checkpoint restrains pulmonary ILC2 functions. The Journal of clinical investigation, 135(4).

Boyle LM, et al. (2025) The ventral CA2 region of the hippocampus and its differential contributions to social memory and social aggression. Cell reports, 44(5), 115714.

Shoman M, et al. (2025) Expanding the CarD interaction network: CrsL is a novel transcription regulator in actinobacteria. Nucleic acids research, 53(22).

Yamamura Y, et al. (2025) CXCL12+ fibroblastic reticular cells in lymph nodes facilitate immune tolerance by regulating T cell-mediated alloimmunity. The Journal of clinical investigation, 135(9).

Panou T, et al. (2025) The Therapeutic Potential of Dipeptidyl Peptidase 4 Inhibitors and Glucagon-Like Peptide-1 Receptor Agonists in Diabetic Peripheral Neuropathy. Diabetes therapy : research, treatment and education of diabetes and related disorders, 16(6), 1077.

Sabatini G, et al. (2025) Autism Spectrum Disorder: From Experimental Models to Probiotic Application with a Special Focus on *Lactiplantibacillus plantarum*. *Nutrients*, 17(15).

Dehghani A, et al. (2025) Pregnancy exacerbates neutrophil responses in murine lungs and alters gut microbiota composition after cigarette smoke exposure. *Frontiers in immunology*, 16, 1590290.

Espinosa-Vinals C, et al. (2025) Intranasal application of a bifunctional pertactin-RTX fusion antigen elicits protection of mouse airway mucosa against *Bordetella pertussis* colonization. *mSphere*, 10(4), e0095924.

Curtiss ML, et al. (2025) CXCR5 Signals Fine-Tune Dendritic Cell Transcription and Regulate TH2 Development. *Vaccines*, 13(9).

Oliveira P, et al. (2025) Subtherapeutic Dose of Ionizing Radiation Reprograms the Pre-Metastatic Lung Niche, Accelerating Its Formation and Promoting Metastasis. *International journal of molecular sciences*, 26(13).

Bortolozzo-Gleich MH, et al. (2025) Impaired vasopressin neuromodulation of the lateral septum leads to social behavior deficits in Shank3B^{+/-} male mice. *Nature communications*, 16(1), 6783.

Nelson AJ, et al. (2025) Lung-resident memory B cells maintain allergic IgE responses in the respiratory tract. *Immunity*, 58(4), 875.

Baptista SJS, et al. (2025) CSP ubiquitylation favours *Plasmodium berghei* survival during early liver stage infection. *Scientific reports*, 15(1), 14498.

Ravon F, et al. (2025) Assessment of Innovative Dry Powders for Inhalation of a Synergistic Combination Against *Mycobacterium tuberculosis* in Infected Macrophages and Mice. *Pharmaceutics*, 17(6).

Zheng X, et al. (2025) TcMAC21 mouse model recapitulates abnormal vascular physiology observed in humans with Down syndrome. *Physiological reports*, 13(11), e70384.

Nguyen LD, et al. (2025) Cryogel-Based Dendritic Cell Immunotherapy for Post-Surgical Breast Cancer Treatment. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 12(37), e03238.

Kos JT, et al. (2025) Characterization of extensive diversity in immunoglobulin light chain variable germline genes across biomedically important mouse strains. *ImmunoHorizons*, 9(8).